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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/859,558	05/17/2001	Hong Gan	04645.0734	4108		
7	590 07/28/2003					
Michael F. Scalise Hodgson Russ LLP One M&T Plaza, Suite 2000			EXAMINER			
			WEINER, LAURA S			
Buffalo, NY 14203-2391			ART UNIT	PAPER NUMBER		
			1745			
			DATE MAILED: 07/28/2003	DATE MAILED: 07/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	V	\sim			
Office Action Summary		09/859,558	(GAN ET AL.					
		Examin r		Art Unit					
		Laura S Weiner		1745		_			
Period f	The MAILING DATE of this communication app or Reply	ears on the cover she	eet with the co	rrespondenc ad	dress				
THE - External control	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply 0 period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, r y within the statutory minimum vill apply and will expire SIX (ξ , cause the application to becc	may a reply be timel of thirty (30) days w on MONTHS from the ome ABANDONED	y filed vill be considered timely e mailing date of this co (35 U.S.C. § 133).					
1)🖂	Responsive to communication(s) filed on 18 J	<u>lune 2003</u> .							
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.							
3)	Since this application is in condition for allowards closed in accordance with the practice under				e merits is				
•	tion of Claims								
4)⊠	Claim(s) <u>1-32</u> is/are pending in the application								
6,57	4a) Of the above claim(s) is/are withdraw	wn from consideration	n.						
· · · · ·	Claim(s) is/are allowed.								
	☑ Claim(s) <u>1-32</u> is/are rejected.								
·	Claim(s) is/are objected to.	r alaction requiremen							
•	Claim(s) are subject to restriction and/orition Papers	r election requiremen	IL.						
· · · _	The specification is objected to by the Examine	r.							
•	The drawing(s) filed on is/are: a) accept		by the Exam	iner.					
,—	Applicant may not request that any objection to the	e drawing(s) be held in	abeyance. See	37 CFR 1.85(a).					
11)	The proposed drawing correction filed on	is: a)□ approved b)∐ disapprov	ed by the Examine	er.				
	If approved, corrected drawings are required in rep	oly to this Office action.							
12)	The oath or declaration is objected to by the Ex	aminer.							
Priority:	under 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S	S.C. § 119(a)-	(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents	s have been received	i .						
	2. Certified copies of the priority documents	s have been received	in Application	n No					
* (Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list 	reau (PCT Rule 17.2	(a)).		Stage				
14) 🗌 /	Acknowledgment is made of a claim for domesti	c priority under 35 U.	S.C. § 119(e)	(to a provisional	application	າ).			
	a) The translation of the foreign language pro Acknowledgment is made of a claim for domesti	* *							
Attachmen	nt(s)	•							
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Noti	ice of Informal Pa	PTO-413) Paper No(tent Application (PT0					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-32 have been considered but are moot in view of the new ground(s) of rejection.

Note. There has been no Supplemental Information Disclosure Statement filed containing Bai (5,744,258).

Claim Rejections - 35 USC § 112

2. Claims 22-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 22 is rejected because the claim does not discuss where the second active material is positioned in regard to the current collectors.

Claim Rejections - 35 USC § 103

Note: The [italics portion] denotes the claimed language.

3. Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gan (6,551,747) in view of Endo (EP 58-223264, abstract).

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Gan teaches in column 13, lines 39-57, an electrochemical cell comprising an anode; a cathode of a first cathode active material different than a second cathode material, the first cathode active material being of a first energy density and a first rate capability and the second cathode active material being of a second energy density and a second rate capability and contains first and second current collectors with the second cathode material [first cathode material, CFx] sandwiched between the current collectors and the first cathode active material [second cathode material, SVO] contacting the first and second current collectors opposite the second cathode active material. Gan teaches in column 14, lines 1-10, that the cathode has the configuration SVO/first current collector/CFx/ second current collector/SVO. Gan teaches in column 2, lines 45-62, a lithium cell comprising a cathode of SVO/current collector/CFx. Gan teaches in column 14, lines 35-41, the cathode is SVO/Ti current collector/SVO/CFx/SVO/Ti current collector/SVO.

Gan teaches the claimed electrochemical cell as explained above except does not specifically teach that the fluorinated carbon, CFx is characterized as having been synthesized from a fibrous carbonaceous material having sufficient spacing between graphite layers.

Endo teaches to increase discharge voltage and improve voltage flatness of a battery by using as an active mass fibrous graphite fluoride which contains graphite fluoride (CxF)n and hexagonal net plane of carbon is practically parallel to fiber axis and arranged in an annual ring shape.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the fibrous graphite fluoride taught by Endo in the electrochemical cell of Gan because Endo teaches that the fibrous graphite fluoride increases discharge voltage and improves voltage flatness of a battery.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Laura Weiner whose telephone number is (703) 308-4396. The examiner

works a flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Patrick Ryan, can be reached at (703) 308-2383. The fax phone number for non-after finals is

703-872-9310 and the fax phone number for after-finals is 703-872-9311.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Laura S. Weiner

Primary Examiner

Art Unit 1745

July 24, 2003